

Author index of Volume 108*

- Arora, J.S., see Lee, T.H. (3-4) 237-259
- Behr, M., A. Johnson, J. Kennedy, S. Mittal and T. Tezduyar, Computation of incompressible flows with implicit finite element implementations on the Connection Machine (1-2) 99-118
- Belytschko, T. and Y.Y. Lu, Explicit multi-time step integration for first and second order finite element semidiscretizations (3-4) 353-383
- Bertóti, E., Complementary energy method for cylindrical shells using second order stress functions (1-2) 147-163
- Chopra, M.B. and G.F. Dargush, Thermal stress analysis of axisymmetric bodies via the boundary element method (1-2) 53- 71
- Dargush, G.F., see Chopra, M.B. (1-2) 53- 71
- Der Kiureghian, A., see Zhang, Y. (1-2) 23- 36
- Dubois-Pèlerin, Y. and T. Zimmermann, Object-oriented finite element programming: III. An efficient implementation in C++ (1-2) 165-183
- El Sahrawi, Z., see Gardner, L.R.T. (3-4) 303-318
- Ferguson, W.J., R.W. Lewis and L. Tömösy, A finite element analysis of freeze-drying of a coffee sample (3-4) 341-352
- Gardner, G.A., see Gardner, L.R.T. (3-4) 303-318
- Gardner, L.R.T., G.A. Gardner, S.I. Zaki and Z. El Sahrawi, *B*-spline finite element studies of the non-linear Schrödinger equation (3-4) 303-318
- Johnson, A., see Behr, M. (1-2) 99-118
- Kacou, S. and I.D. Parsons, A parallel multigrid method for history-dependent elastoplasticity computations (1-2) 1- 21
- Kasi Viswanadham, K.N.S. and S.R. Koneru, Finite element method for one-dimensional and two-dimensional time dependent problems with B-splines (3-4) 201-222
- Kennedy, J., see Behr, M. (1-2) 99-118
- Kheyrkhahan, M., see Peek, R. (3-4) 261-279
- Kleiber, M., Shape and non-shape structural sensitivity analysis for problems with any material and kinematic non-linearity (1-2) 73- 97
- Koneru, S.R., see Kasi Viswanadham, K.N.S. (3-4) 201-222
- Kumar, V., see Lee, T.H. (3-4) 237-259

* The issue number is given in front of the page numbers.

- Laursen, T.A. and J.C. Simo, Algorithmic symmetrization of Coulomb frictional problems using augmented Lagrangians (1-2) 133-146
- Lee, T.H., J.S. Arora and V. Kumar, Shape design sensitivity analysis of viscoplastic structures (3-4) 237-259
- Lewis, R.W., see Ferguson, W.J. (3-4) 341-352
- Lin, Y.Y., see Lin, Z.C. (1-2) 37- 52
- Lin, Z.C., Y.Y. Lin and C.R. Liu, The influence of the degree of constraint on the residual stress of the machined workpiece (1-2) 37- 52
- Liu, C.R., see Lin, Z.C. (3-4) 37- 52
- Lu, Y.Y., see Belytschko, T. (3-4) 353-383
- Mittal, S., see Behr, M. (1-2) 99-118
- Parsons, I.D., see Kacou, S. (1-2) 1- 21
- Peek, R. and M. Kheyrkahan, Postbuckling behavior and imperfection sensitivity of elastic structures by the Lyapunov-Schmidt-Koiter approach (3-4) 261-279
- Perucchio, R., see Sapidis, N. (3-4) 281-302
- Sapidis, N. and R. Perucchio, Combining recursive spatial decompositions and domain Delaunay tetrahedrizations for meshing arbitrarily shaped curved solid models (3-4) 281-302
- Simo, J.C., see Laursen, T.A. (1-2) 133-146
- Simo, J.C., On a stress resultant geometrically exact shell model. Part VII: Shell intersections with 5/6-DOF finite element formulations (3-4) 319-339
- Souli, M. and J.P. Zolesio, Shape derivative of discretized problems (3-4) 187-199
- Souli, M., A variational finite element method for the two-dimensional Stokes problem (3-4) 223-236
- Tezduyar, T., see Behr, M. (1-2) 99-118
- Tömösy, L., see Ferguson, W.J. (3-4) 341-352
- Valliappan, S., see Zhao, C. (1-2) 119-131
- Zaki, S.I., see Gardner, L.R.T. (3-4) 303-318
- Zhang, Y. and A. Der Kiureghian, Dynamic response sensitivity of inelastic structures (1-2) 23- 36
- Zhao, C. and S. Valliappan, Mapped transient infinite elements for heat transfer problems in infinite media (1-2) 119-131
- Zimmermann, T., see Dubois-Pèlerin, Y. (1-2) 165-183
- Zolesio, J.P., see Souli, M. (3-4) 187-199

Subject index of Volume 108*

Boundary element methods

- Thermal stress analysis of axisymmetric bodies via the boundary element method, M.B. Chopra and G.F. Dargush (1-2) 53- 71

Collocation method

- B-spline finite element studies of the non-linear Schrödinger equation, L.R.T. Gardner, G.A. Gardner, S.I. Zaki and Z. El Sahrawi (3-4) 303-318

Coupled problems

- A finite element analysis of freeze-drying of a coffee sample, W.J. Ferguson, R.W. Lewis and L. Tömösy (3-4) 341-352

Dynamics

- Explicit multi-time step integration for first and second order finite element semidiscretizations, T. Belytschko and Y.Y. Lu (3-4) 353-383

Elasticity

- Complementary energy method for cylindrical shells using second order stress functions, E. Bertóti (1-2) 147-163

Finite element and matrix methods

- The influence of the degree of constraint on the residual stress of the machined workpiece, Z.C. Lin, Y.Y. Lin and C.R. Liu (1-2) 37- 52
- Shape and non-shape structural sensitivity analysis for problems with any material and kinematic non-linearity, M. Kleiber (1-2) 73- 97
- Computation of incompressible flows with implicit finite element implementations on the Connection Machine, M. Behr, A. Johnson, J. Kennedy, S. Mittal and T. Tezduyar (1-2) 99-118
- Mapped transient infinite elements for heat transfer problems in infinite media, C. Zhao and S. Valliappan (1-2) 119-131
- Complementary energy method for cylindrical shells using second order stress functions, E. Bertóti (1-2) 147-163
- Object-oriented finite element programming: III. An efficient implementation in C++, Y. Dubois-Pèlerin and T. Zimmermann (1-2) 165-183
- A variational finite element method for the two-dimensional Stokes problem, M. Souli (3-4) 223-236
- Combining recursive spatial decompositions and domain Delaunay tetrahedrizations for meshing arbitrarily shaped curved solid models, N. Sapidis and R. Perucchio (3-4) 281-302

* The issue number is given in front of the page numbers.

- B-spline finite element studies of the non-linear Schrödinger equation, L.R.T. Gardner, G.A. Gardner, S.I. Zaki and Z. El Sahrawi* (3-4) 303-318
- On a stress resultant geometrically exact shell model. Part VII: Shell intersections with 5/6-DOF finite element formulations, J.C. Simo* (3-4) 319-339
- A finite element analysis of freeze-drying of a coffee sample, W.J. Ferguson, R.W. Lewis and L. Tömösy* (3-4) 341-352
- Explicit multi-time step integration for first and second order finite element semidiscretizations, T. Belytschko and Y.Y. Lu* (3-4) 353-383
- Fluid mechanics*
- Computation of incompressible flows with implicit finite element implementations on the Connection Machine, M. Behr, A. Johnson, J. Kennedy, S. Mittal and T. Tezduyar* (1-2) 99-118
- Heat and diffusion*
- Mapped transient infinite elements for heat transfer problems in infinite media, C. Zhao and S. Valliappan* (1-2) 119-131
- Combining recursive spatial decompositions and domain Delaunay tetrahedrizations for meshing arbitrarily shaped curved solid models, N. Sapidis and R. Perucchio* (3-4) 281-302
- A finite element analysis of freeze-drying of a coffee sample, W.J. Ferguson, R.W. Lewis and L. Tömösy* (3-4) 341-352
- Modern computer architecture*
- A parallel multigrid method for history-dependent elastoplasticity computations, S. Kacou and I.D. Parsons* (1-2) 1- 21
- Computation of incompressible flows with implicit finite element implementations on the Connection Machine, M. Behr, A. Johnson, J. Kennedy, S. Mittal and T. Tezduyar* (1-2) 99-118
- Nonlinear mechanics*
- Shape and non-shape structural sensitivity analysis for problems with any material and kinematic non-linearity, M. Kleiber* (1-2) 73- 97
- Algorithmic symmetrization of Coulomb frictional problems using augmented Lagrangians, T.A. Laursen and J.C. Simo* (1-2) 133-146
- Postbuckling behavior and imperfection sensitivity of elastic structures by the Lyapunov-Schmidt-Koiter approach, R. Peek and M. Kheyrkahan* (3-4) 261-279
- Numerical solution procedures*
- Dynamic response sensitivity of inelastic structures, Y. Zhang and A. Der Kiureghian* (1-2) 23- 36
- Mapped transient infinite elements for heat transfer problems in infinite media, C. Zhao and S. Valliappan* (1-2) 119-131
- Finite element method for one-dimensional and two-dimensional time dependent problems with B-splines, K.N.S. Kasi Viswanadham and S.R. Koneru* (3-4) 201-222
- Combining recursive spatial decompositions and domain Delaunay tetrahedrizations for meshing arbitrarily shaped curved solid models, N. Sapidis and R. Perucchio* (3-4) 281-302

- Explicit multi-time step integration for first and second order finite element semidiscretizations, T. Belytschko and Y.Y. Lu (3-4) 353-383

Optimization

- Dynamic response sensitivity of inelastic structures, Y. Zhang and A. Der Kiureghian (1-2) 23- 36
 Shape derivative of discretized problems, M. Souli and J.P. Zolesio (3-4) 187-199
 Shape design sensitivity analysis of viscoplastic structures, T.H. Lee, J.S. Arora and V. Kumar (3-4) 237-259

Optimization and design of structures

- Shape and non-shape structural sensitivity analysis for problems with any material and kinematic non-linearity, M. Kleiber (1-2) 73- 97

Phase changes

- A finite element analysis of freeze-drying of a coffee sample, W.J. Ferguson, R.W. Lewis and L. Tömösy (3-4) 341-352

Plasticity

- A parallel multigrid method for history-dependent elastoplasticity computations, S. Kacou and I.D. Parsons (1-2) 1- 21
 Dynamic response sensitivity of inelastic structures, Y. Zhang and A. Der Kiureghian (1-2) 23- 36
 The influence of the degree of constraint on the residual stress of the machined workpiece, Z.C. Lin, Y.Y. Lin and C.R. Liu (1-2) 37- 52

Shells and plates

- Complementary energy method for cylindrical shells using second order stress functions, E. Bertóti (1-2) 147-163
 Postbuckling behavior and imperfection sensitivity of elastic structures by the Lyapunov-Schmidt-Koiter approach, R. Peek and M. Kheyrkhanan (3-4) 261-279
 On a stress resultant geometrically exact shell model. Part VII: Shell intersections with 5/6-DOF finite element formulations, J.C. Simo (3-4) 319-339

Singularity methods

- Object-oriented finite element programming: III. An efficient implementation in C++, Y. Dubois-Pèlerin and T. Zimmermann (1-2) 165-183

Solution of differential equations

- Finite element method for one-dimensional and two-dimensional time dependent problems with B-splines, K.N.S. Kasi Viswanadham and S.R. Koneru (3-4) 201-222

Solutions of ordinary and partial differential equations

- Finite element method for one-dimensional and two-dimensional time dependent problems with B-splines, K.N.S. Kasi Viswanadham and S.R. Koneru (3-4) 201-222

Spline approximation

- B-spline finite element studies of the non-linear Schrödinger equation, L.R.T. Gardner, G.A. Gardner, S.I. Zaki and Z. El Sahrawi (3-4) 303-318

Stability in structural mechanics

- Postbuckling behavior and imperfection sensitivity of elastic structures by the Lyapunov-Schmidt-Koiter approach, R. Peek and M. Kheyrkahan (3-4) 261-279

Structural mechanics

- The influence of the degree of constraint on the residual stress of the machined workpiece, Z.C. Lin, Y.Y. Lin and C.R. Liu (1-2) 37- 52
Thermal stress analysis of axisymmetric bodies via the boundary element method, M.B. Chopra and G.F. Dargush (1-2) 53- 71
Shape and non-shape structural sensitivity analysis for problems with any material and kinematic non-linearity, M. Kleiber (1-2) 73- 97
Algorithmic symmetrization of Coulomb frictional problems using augmented Lagrangians, T.A. Laursen and J.C. Simo (1-2) 133-146
Shape design sensitivity analysis of viscoplastic structures, T.H. Lee, J.S. Arora and V. Kumar (3-4) 237-259

Thermal effects and thermal dynamics

- Thermal stress analysis of axisymmetric bodies via the boundary element method, M.B. Chopra and G.F. Dargush (1-2) 53- 71
A finite element analysis of freeze-drying of a coffee sample, W.J. Ferguson, R.W. Lewis and L. Tömösy (3-4) 341-352

Transport phenomena

- A finite element analysis of freeze-drying of a coffee sample, W.J. Ferguson, R.W. Lewis and L. Tömösy (3-4) 341-352

Viscoelastic and viscoplastic media

- Shape design sensitivity analysis of viscoplastic structures, T.H. Lee, J.S. Arora and V. Kumar (3-4) 237-259

Wave motion

- B-spline finite element studies of the non-linear Schrödinger equation, L.R.T. Gardner, G.A. Gardner, S.I. Zaki and Z. El Sahrawi (3-4) 303-318

